

Education	Massachusetts Institute of Technology (MIT) <ul style="list-style-type: none">Ph.D., Department of Physics	Cambridge, MA May 2011
	University of California, Berkeley <ul style="list-style-type: none">B.A., Department of Physics, Highest HonorsRecipient of 2004 Department of Physics Citation Award	Berkeley, CA May 2004
Work Experience	Lawrence Livermore National Laboratory (Livermore, CA), Postdoctoral Researcher <ul style="list-style-type: none">Modeled usage of conventional generation, demand response, and storage, under a 33% renewable portfolio standard mandate for the California Energy CommissionWorked with team to integrate atmospheric modeling of renewable generation into unit commitment modelUsed unit commitment software PLEXOS and mixed-integer program (MIP) solver to provide a framework for grid operation decision making under uncertain forecastsPresented grid optimization work to multiple CPUC and CEC commissioners, CPUC staff, executives at the 3 California investor-owned utilities, and to the California independent system operator (CAISO) staff	5/2011-present
	MIT Plasma Science and Fusion Center (Cambridge, MA), Research Assistant <ul style="list-style-type: none">Studied electron transport in prototype nuclear fusion reactor in pursuit of sustainable energy sourceMaintained, upgraded, and routinely collected data from x-ray cameraDeveloped model to infer electron transport properties in fusion plasmas from x-ray measurementsRan, modified, and iterated between two multi-module codes to simulate a variety of plasma scenariosWorked with code developers to benchmark software against experimental data and competing codesManaged and analyzed over 1 TB of x-ray data, shared by research team of 100 scientists and engineersMet with Congressional staff in Washington, D.C. to lobby for \$300M annual fusion budgetLed outreach activities to educate public about fusion and fusion researchCo-authored 6 refereed papers, presented at 6 conferences	2004-2011
	UC Berkeley Department of Physics (Berkeley, CA), Undergraduate Research Assistant <ul style="list-style-type: none">Wrote software to model magnetic fields inside anti-hydrogen trapCo-authored paper, presented at 3 conferences	2002-2004
	Lawrence Berkeley National Laboratory (Berkeley, CA), Intern <ul style="list-style-type: none">Measured magnetic field angle errors in superconducting magnets for the Advanced Light SourceSuccessful completion of project resulted in 3 new hard x-ray beam lines for facility	Summer 2001

Presentations

"Automated Demand Response and Storage for Renewable Integration," presented to the California Independent System Operator (CAISO), October 25, 2012; presented to the California Public Utilities Commission, October 5, 2012; presented to Pacific Gas & Electric, Southern California Edison, and San Diego Gas and Electric, September 11, 2012.

"Analysis of Renewable Generation Systems Using PLEXOS," Current Challenges in Computing conference in Napa, CA, August 22-24, 2011.

Reports

"Comparison of CAISO-run PLEXOS output with LLNL-run PLEXOS output," A. Schmidt, C. Meyers, S. Smith, January 2012.

"Observation on the Optimality Tolerance in the CAISO 33% RPS Model," Y. Yao, C. Meyers, A. Schmidt, S. Smith, F. Streitz. September 2011.